In re application of Anthony DeLuca et al.
Tool Supporting System Log File Reporting
Docket #RA 5428 (USYS.032PA) - Customer #27516
Express Mail ET351442368US
Attorney: Charles A. Johnson, Reg. #20,852 651-635-7702
Drawing 1 of 6

102

104

system
software

110

log access
routine

requests
control

data

100

log data

106

active
log file

108

archived
log file(s)

126

log analyzer
batch service

122

136

124

client(s)

log
analyzer

134

report
files

132

report
viewer

130

admin.
data

128

indexed log
data

FIG. 1

Create a New Log File from 2200 Host

Acquire Now

Batch

Options

Cancel

Log Description: Log-10/18/2001 5:36:57 PM

Log File Name: Log-01 1018173657

Log Start Date: 10/18/2001   Log Start Time: 12:00:00 AM

Log End Date: 10/18/2001   Log End Time: 12:00:05 AM

Comments:

| REPORTS | CLASSES | LOGS |

Available Log Types

071 - System Time and Date
072 - System Equipment Mnemonics
073 - System ID
074 - Log File Header Error
075 - System Performance
101 - Program Log Entry
102 - Checkpoint Restart
103 - TIP Program
106 - Run Identification

Add >>

All >>

<< Remove

<< All

Selected Log Types

FIG. 2

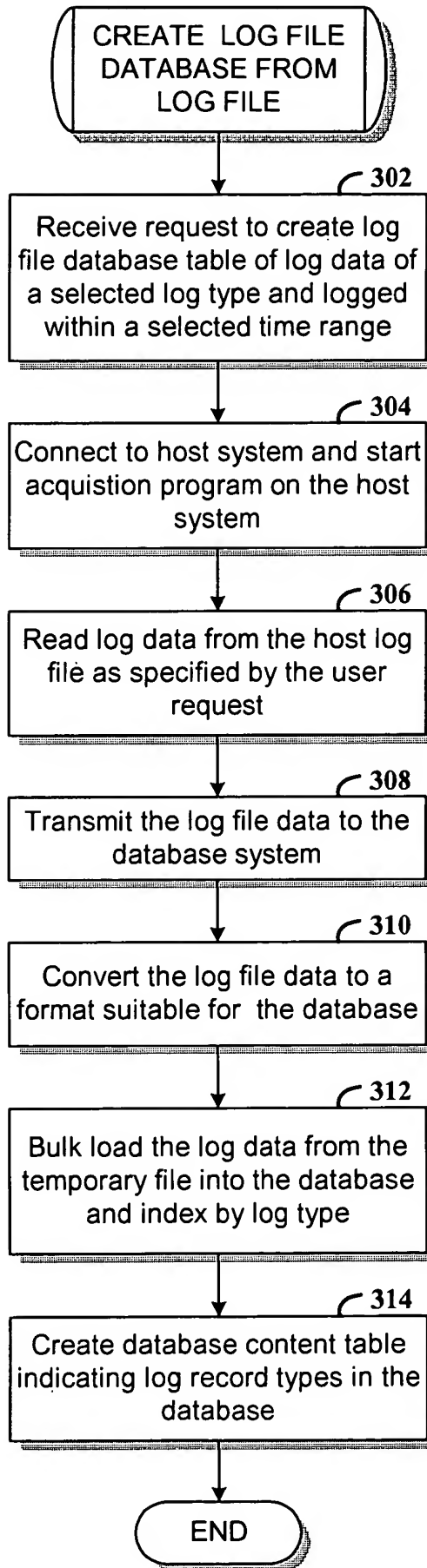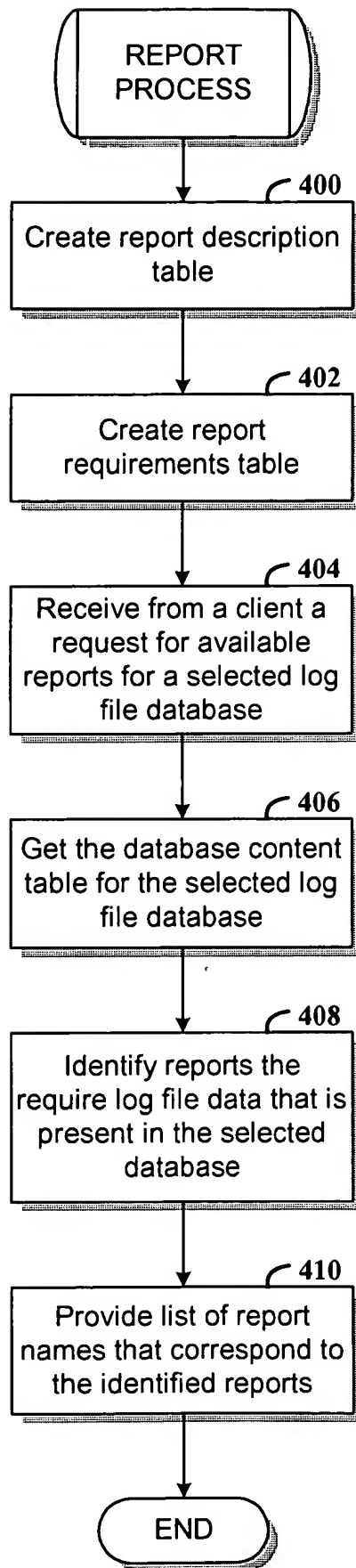In re application of Anthony DeLuca et al.
Tool Supporting System Log File Reporting
Docket #RA 5428 (USYS.032PA) - Customer #27516
Express Mail ET351442368US
Attorney: Charles A. Johnson, Reg. #20,852 651-635-7702
Drawing 3 of 6

```
            ┌─────────────────────┐
            │  CREATE  LOG FILE   │
            │  DATABASE FROM      │
            │  LOG FILE           │
            └─────────────────────┘
                       │
                       ▼
                                    ⌐ 302
    ┌──────────────────────────────────┐
    │ Receive request to create log    │
    │ file database table of log data  │
    │ of a selected log type and       │
    │ logged within a selected time    │
    │ range                            │
    └──────────────────────────────────┘
                       │
                       ▼
                                    ⌐ 304
    ┌──────────────────────────────────┐
    │ Connect to host system and start │
    │ acquistion program on the host   │
    │ system                           │
    └──────────────────────────────────┘
                       │
                       ▼
                                    ⌐ 306
    ┌──────────────────────────────────┐
    │ Read log data from the host log  │
    │ file as specified by the user    │
    │ request                          │
    └──────────────────────────────────┘
                       │
                       ▼
                                    ⌐ 308
    ┌──────────────────────────────────┐
    │ Transmit the log file data to    │
    │ the database system              │
    └──────────────────────────────────┘
                       │
                       ▼
                                    ⌐ 310
    ┌──────────────────────────────────┐
    │ Convert the log file data to a   │
    │ format suitable for  the database│
    └──────────────────────────────────┘
                       │
                       ▼
                                    ⌐ 312
    ┌──────────────────────────────────┐
    │ Bulk load the log data from the  │
    │ temporary file into the database │
    │ and index by log type            │
    └──────────────────────────────────┘
                       │
                       ▼
                                    ⌐ 314
    ┌──────────────────────────────────┐
    │ Create database content table    │
    │ indicating log record types in   │
    │ the database                     │
    └──────────────────────────────────┘
                       │
                       ▼
                 ┌───────────┐
                 │    END    │
                 └───────────┘
```

FIG. 3

In re application of Anthony DeLuca et al.
Tool Supporting System Log File Reporting
Docket #RA 5428 (USYS.032PA) - Customer #27516
Express Mail ET351442368US
Attorney: Charles A. Johnson, Reg. #20,852 651-635-7702
Drawing 4 of 6

```
        ╭──────────────╮
        │   REPORT     │
        │  PROCESS     │
        ╰──────────────╯
               │
               ▼            ⌐ 400
     ┌──────────────────────┐
     │ Create report description
     │        table          │
     └──────────────────────┘
               │
               ▼            ⌐ 402
     ┌──────────────────────┐
     │   Create report       │
     │  requirements table   │
     └──────────────────────┘
               │
               ▼            ⌐ 404
     ┌──────────────────────┐
     │  Receive from a client a
     │  request for available
     │  reports for a selected log
     │    file database      │
     └──────────────────────┘
               │
               ▼            ⌐ 406
     ┌──────────────────────┐
     │ Get the database content
     │ table for the selected log
     │     file database     │
     └──────────────────────┘
               │
               ▼            ⌐ 408
     ┌──────────────────────┐
     │  Identify reports the
     │ require log file data that is
     │  present in the selected
     │       database        │
     └──────────────────────┘
               │
               ▼            ⌐ 410
     ┌──────────────────────┐
     │  Provide list of report
     │ names that correspond to
     │   the identified reports
     └──────────────────────┘
               │
               ▼
        ╭──────────────╮
        │     END      │
        ╰──────────────╯
```

FIG. 4

In re application of Anthony DeLuca et al.
Tool Supporting System Log File Reporting
Docket #RA 5428 (USYS.032PA) - Customer #27516
Express Mail ET351442368US
Attorney: Charles A. Johnson, Reg. #20,852 651-635-7702
Drawing 5 of 6

UNISYS
System Log Analysis and Reports

Select Start Time Interval
Select End Time Interval

Tape Channel Program Error Report

Database Creation Date & Time	Create Date			Log Start Date & Time	Log Start Date-Time
Database Name	System Log File Name			Log End Date & Time	Log End Date-Time
Database Description	System Log Description				

Device Name	Reel # Pack ID	Time of last Error	Run ID	User Function Code	RD	WRT	Other	References Since Last Error
Group #1 Name								
	Reel Number P Audit Timestamp Date	Run ID	Code	Errors	errors	errors	erences Since Last Error
TOTALS:	scriptor.Au	ERROR(S)			rors	rrors	rrors	Avges Since Last Error

Printed on Print Date at Print Time

Page N of M

FIG. 5

In re application of Anthony DeLuca et al.
Tool Supporting System Log File Reporting
Docket #RA 5428 (USYS.032PA) - Customer #27516
Express Mail ET351442368US
Attorney: Charles A. Johnson, Reg. #20,852 651-635-7702
Drawing 6 of 6

Report Select Logs

Log Description: Log-11/15/2001 1:17:53 PM	Close
Log Path\File Name: Log-011115131753	Select Log File
Report Name: (None)	View Report
Filter/Sort Name: (None)	
Last Update Date: 11/15/2001 1:20:44 PM	

Report Selection	Filter	Sort	Filter/Sort Select

Report Name	Category	Type
Log Frequency Report	Debug	Detailed
Log Entry Descriptor	General	Basic
System Log Type 101	General	Basic

FIG. 6